

Form PTO-1449

**INFORMATION DISCLOSURE CITATION**  
**IN AN APPLICATION**  
*(Use several sheets if necessary)*

Docket Number (Optional)  
FPY- 048.03 (22823-4803)

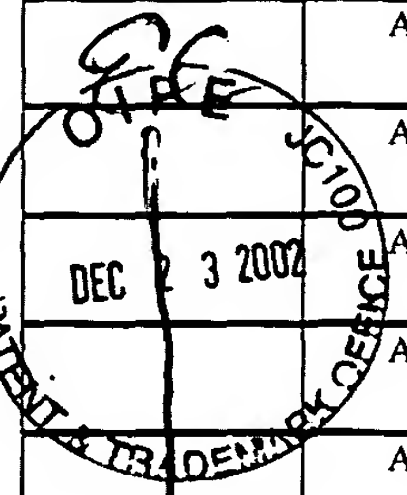
Application Number  
10/051,624

Applicants  
Quigley, et al.

Filing Date  
January 18, 2002

Group Art Unit  
1771

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	646,887	04/1900	Stowe et al.		
	A2	1,930,285	10/1933	Robinson	113	116
	A3	2,648,720	08/1953	Alexander	174	34
	A4	2,690,769	10/1954	Brown	138	55
	A5	2,725,713	12/1955	Banchard	57	149
	A6	2,810,424	10/1957	Swartswlter et al.	154	1.8
	A7	3,116,760	01/1964	Matthews	138	125
	A8	3,277,231	10/1966	Downey et al.	174	47
	A9	3,334,663	08/1967	Teterson	138	132
	A10	3,379,220	04/1969	Kiuchi et al.	138	125
	A11	3,477,474	11/1969	Mesler	138	133
	A12	3,507,412	04/1970	Carter	214	338
	A13	3,522,413	08/1970	Chrow	174	47x
	A14	3,554,284	01/1971	Nystrom	166	250
	A15	3,579,402	05/1971	Goldsworthy et al.	156	392
	A16	3,604,461	09/1971	Matthews	138	137
	A17	3,606,402	09/1971	Medney	285	305
	A18	3,692,601	09/1972	Goldsworthy et al.	156	74
	A19	3,700,519	10/1972	Carter	156	156
	A20	3,701,489	10/1972	Goldsworthy et al.	242	7.21
	A21	3,734,421	05/1973	Karlson et al.	242	7.21
	A22	3,738,637	01/1973	Goldsworthy et al.	269	61
	A23	3,740,285	06/1973	Goldsworthy et al.	159	173
	A24	3,769,127	10/1973	Goldsworthy et al.	156	172
	A25	3,783,060	01/1974	Goldsworthy et al.	156	69
	A26	3,828,112	08/1974	Johansen et al.	174	47

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4	A27	3,856,052	12/1974	Feucht	138	119	
	A28	3,860,742	01/1975	Medney	174	84S	
	A29	3,933,180	01/1976	Carter	138	89	
	A30	3,956,051	05/1976	Carter	156	429	
	A31	3,957,410	05/1976	Goldsworthy et al.	425	183	
	A32	3,960,629	06/1976	Goldsworthy	156	18	
	A33	Re 29,112	01/1977	Carter	156	156	
	A34	4,053,343	10/1977	Carter	156	172	
	A35	4,057,610	11/1977	Goettler et al.	264	108	
	A36	4,095,865	06/1978	Denison et al.	339	16R	
	A37	4,108,701	08/1978	Stanley	156	160	
	A38	4,125,423	11/1978	Goldsworthy	156	428	
	A39	4,133,972	01/1979	Anderson et al.	174	47	
	A40	4,137,949	02/1979	Linko, III et al.	138	125	
	A41	4,139,025	02/1979	Carlstrom	138	153	
	A42	4,190,088	02/1980	Lalikos et al.	138	126	
	A43	4,200,126	04/1980	Fish	138	143	
	A44	4,220,381	09/1980	Van der Graaf	339	16C	
	A45	4,241,763	12/1980	Antal et al.	138	127	
	A46	4,248,062	02/1981	McLain et al.	64	1	
	A47	4,261,390	04/1981	Belofsky	138	125	
	A48	4,303,457	12/1981	Johansen et al.	156	149	
	A49	4,308,999	01/1982	Carter	242	7.02	
	A50	4,336,415	06/1982	Walling	174	47	
	A51	4,446,892	05/1984	Maxwell	138	104	
	A52	4,463,779	08/1984	Wing et al.	138	125	
	A53	4,515,737	05/1985	Karino et al.	264	22	
EC	A54	4,530,379	07/1985	Policelli	138	109	

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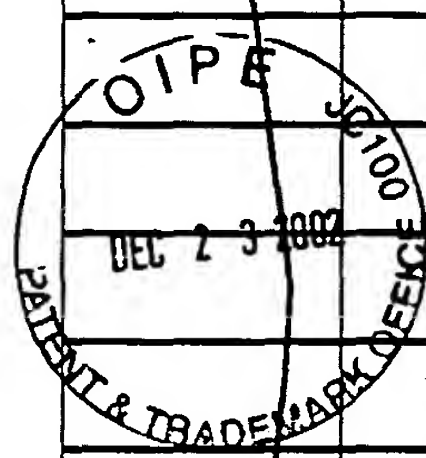
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EC	A55	4,556,340	12/1985	Morton	405	195	
	A56	4,522,235	06/1985	Kluss et al.	138	130	
	A57	4,578,675	05/1986	MacLeod	340	855	
	A58	4,627,472	12/1986	Goettler et al.	138	174	
	A59	4,657,795	04/1987	Foret	428	36	
	A60	4,681,169	07/1987	Brookbank, III	166	385	
	A61	4,728,224	03/1988	Salama et al.	405	195	
	A62	4,789,007	12/1988	Cretel	174	47x	
	A63	4,849,668	07/1989	Crawley et al.	310	328	
	A64	4,859,024	08/1989	Rahman	350	96.23	
	A65	4,992,787	02/1991	Helm	340	854	
	A66	5,097,870	03/1992	Williams	138	115	
	A67	5,170,011	12/1992	Martucci	174	47	
	A68	5,172,765	12/1992	Sas-Jaworsky et al.	166	384	
	A69	5,176,180	01/1993	Williams et al.	138	172	
	A70	5,182,779	01/1993	D'Agostino et al.	385	13	
	A71	5,184,682	02/1993	Delacour et al.	166	385	
	A72	5,188,872	02/1993	Quigley	428	36.2	
	A73	5,209,136	05/1993	Williams	74	502.5	
	A74	5,222,769	06/1993	Kaepen	285	45	
	A75	5,285,008	02/1994	Sas-Jaworsky et al.	174	47	
	A76	5,285,204	02/1994	Sas-Jaworsky	340	854.9	
	A77	5,330,807	07/1994	Williams	428	34.5	
	A78	5,334,801	08/1994	Mohn	174	47	
	A79	5,348,096	09/1994	Williams	166	384	
	A80	5,351,752	10/1994	Wood et al.	166	68	
	A81	5,394,488	02/1995	Fernald et al.	385	13	
EC	A82	5,426,297	06/1995	Dunphy et al.	250	227.23	

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EC	A83	5,428,706	06/1995	Lequeux	174	47x	
	A84	5,435,867	07/1995	Wolfe et al.	156		
	A85	5,443,099	08/1995	Chaussepied et al.	138		
	A86	5,469,916	11/1995	Sas-Jaworsky et al.	166		
	A87	5,499,661	03/1996	Odru et al.	138	124	
	A88	Re 35,081	11/1995	Quigley	428	36.2	
	A89	5,551,484	09/1996	Charboneau	138	104	
	A90	5,641,956	06/1997	Vengsarkar et al.	250	227.14	
	A91	5,730,188	03/1998	Kalman et al.	138	135	
	A92	5,755,266	05/1998	Aanonsen et al.	138	174	
	A93	5,828,003	10/1998	Thomeer et al.	174	69	
	A94	5,908,049	06/1999	Williams et al.	138	125	
EC	A95	5,913,337	06/1999	Williams et al.	138	125	
	A96	<del>5,921,285</del>	<del>07/1999</del>	<del>Quigley et al.</del>	<del>138</del>	<del>125</del>	
EC	A97	5,933,945	08/1999	Thomeer et al.	29	825	
EC	A98	5,951,812	09/1999	Gilchrist, Jr.	156	304.2	
EC	A99	6,016,845	1/2000	Quigley et al.	138	125	
EC	A100	6,148,866	11/2000	Quigley et al.	138	125	
EC	A101	6,286,558	09/2001	Quigley et al.	138	125	
	A102	<del>6,361,299 B1</del>	<del>3/2002</del>	<del>Quigley et al.</del>	<del>425</del>	<del>35.9</del>	

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER		DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
EC	B1	0024512 A1	03/1981	European			X	
	B2	0352148 A1	01/1990	European				X
	B3	0505815 A2	09/1992	European			X	
	B4	4214383 C1	09/1993	Germany				X
	B5	553110	08/1942	United Kingdom			X	
EC	B6	2255994 A	11/1992	United Kingdom			X	



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		Filing Date January 18, 2002		Group Art Unit 1771	
EC	B7	2270099 A	03/1994	United Kingdom	X
<b>OTHER DOCUMENTS</b> <span style="float: right;">(Including Author, Title, Date, Pertinent Pages Etc.)</span>					
EC	C1	Austigard E. and R. Tomter, "Composites Subsea: Cost Effective Products; an Industry Challenge," Subsea 94 International Conference, the 1994 Report on Subsea Engineering : The Continuing Challenges			
	C2	Connell Mike et al., "Coiled Tubing: Application for Today's Challenges," Petroleum Engineer International, pp 18-21 (July 1999)			
	C3	Feechan Mike et al., "Spoolable Composites Show Promise," The American Oil & Gas Reporter, pp. 44-50 ( September 1999)			
	C4	Fowler Hampton, "Advanced Composite Tubing Usable," The American Oil & Gas Reporter, pp. 76-81 (September 1997)			
	C5	Fowler Hampton et al., "Development Update and Applications of an Advanced Composite Spoolable Tubing," Offshore Technology Conference held in Houston Texas from 4 <sup>th</sup> to 7 <sup>th</sup> of May 1998, pp. 157-162			
	C6	Hahn H. Thomas and Williams G. Jerry, "Compression Failure Mechanisms in Unidirectional Composites," NASA Technical Memorandum pp. 1-42 ( August 1984 )			
	C7	Hansen et al., "Qualification and Verification of Spoolable High Pressure Composite Service Lines for the Asgard Field Development Project," paper presented at the 1997 Offshore Technology Conference held in Houston Texas from 5 <sup>th</sup> to 8 <sup>th</sup> of May 1997, pp. 45-54			
	C8	Haug et al., "Dynamic Umbilical with Composite Tube (DUCT)," Paper presented at the 1998 Offshore Technology Conference held in Houston Texas from 4 <sup>th</sup> to 7 <sup>th</sup> , 1998, pp. 699-712			
	C9	Lundberg et al., "Spin-off Technologies from Development of Continuous Composite Tubing Manufacturing Process," Paper presented at the 1998 Offshore Technology Conference held in Houston, Texas from 4 <sup>th</sup> to 7 <sup>th</sup> of May 1998, pp. 149-155			
	C10	Marker et al., "Anaconda: Joint Development Project Leads to Digitally Controlled Composite Coiled Tubing Drilling System," Paper presented at the SPEI/ COTA, Coiled Tubing Roundtable held in Houston, Texas from 5 <sup>th</sup> to 6 <sup>th</sup> of April, 2000, pp. 1-9			
	C11	Measures R. M., "Smart Structures with Nerves of Glass," Prog. Aerospace Sci. 26(4): 289-351 (1989)			
	C12	Measures et al., "Fiber Optic Sensors for Smart Structures," Optics and Lasers Engineering 16: 127-152 (1992)			
	C13	Poper Peter, "Braiding," International Encyclopedia of Composites, Published by VGH, Publishers, Inc. , New York, NY 10010			
	C14	Quigley et al., "Development and Application of a Novel Coiled Tubing String for Concentric Workover Services," Paper presented at the 1997 Offshore Technology Conference held in Houston, Texas from 5 <sup>th</sup> to 8 <sup>th</sup> of May 1997, pp. 189-202			
	C15	Sas-Jaworsky II and Bell Steve, "Innovative Applications Stimulate Coiled Tubing Development," World Oil , 217(6): 61 (June 1996)			
EC	C16	Sas-Jaworsky II and Mark Elliot Teel, "Coiled Tubing 1995 Update: Production Applications," World Oil, 216 (6): 97 (June 1995 )			

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	C17	Sas-Jaworsky, A. and J.G. Williams, "Advanced composites enhance coiled tubing capabilities," World Oil, pp. 57-69 (April 1994)	
	C18	Sas-Jaworsky, A. and J.G. Williams, "Development of a composite coiled tubing for oilfield services," Society of Petroleum Engineers, SPE 26536, pp. 1-11 (1993)	
	C19	Sas-Jaworsky, A. and J.G. Williams, "Enabling capabilities and potential applications of composite coiled tubing," Proceedings of World Oil's 2 <sup>nd</sup> International Conference on Coiled Tubing Technology, pp. 2-9 (1994)	
	C20	Sas-Jaworsky II Alex, "Developments Position CT for Future Prominence," The American Oil & Gas Reporter, pp. 87-92 (March 1996)	
	C21	Tore Wood Moe et al., "Spoolable, Composite Piping for Chemical and Water Injection and Hydraulic Valve Operation," Proceedings of the 11 <sup>th</sup> International Conference on Offshore Mechanics and Arctic Engineering-1992-, Volume III, Part A- Materials Engineering, pp. 199-207 (1992)	
	C22	Shuart J. M. et al., "Compression Behavior of $\pm 45^\circ$ -Dominated Laminates with a Circular Hole or Impact Damage," AIAA Journal 24(1): 115- 122 (January 1986)	
	C23	Silverman A. Seth, "Spoolable Composite Pipe for Offshore Applications," Materials Selection & Design, pp. 48-50 (January 1997)	
	C24	Rispler K. et al., "Composite Coiled Tubing in Harsh Completion/Workover Environments," Paper presented at the SPE GAS Technology Symposium and Exhibition held in Calgary, Alberta, Canada, on March 15-18, 1998, pp. 405-410	
	C25	Williams G. J. et al., "Composite Spoolable Pipe Development, Advancements, and Limitations," Paper presented at the 2000 Offshore Technology Conference held in Houston Texas from 1 <sup>st</sup> to 4 <sup>th</sup> of May 2000, pp. 1-16	
EXAMINER	Elizabeth M. Cole		DATE CONSIDERED 4/3/03
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.			

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